

USCMS Engineer Status Report for October 2003

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1 Work Performed This Month

Now that COBRA/POOL is a reality, much of October was spent learning new things. 1) getting a deeper knowledge of COBRA (not just persistency). This is crucial. 2) Python: (still a beginner) 3) geant4 (Attended 3-day Geant4 tutorial at Fermilab). 4)CLHEP

I also tracked down the cause of two separate bugs in POOL, providing a fix for one of them.

I also investigated a problem that showed up three times in OSCAR runs, where a CLHEP routine exited suddenly. We convinced CLHEP to modify their Vector library to throw descriptive exceptions rather than exiting. CLHEP issued a new point release doing this.

I also was a reviewer for the LCG Applications area internal technical review at CERN. I took the lead in writing the draft for the POOL section of the report (with input from others, of course), as well as providing significant input for the report on the SEAL dictionary generation.

2 Plans For Next Month

Work on putting a reader of POOL collections into COBRA. Become familiar with POOL collections. Mentor Mark Paterno and Walter Brown, each of whom are now 50% in USCMS/CAS. Work with Marc and Walter on COBRA/POOL/ROOT performance issues.

3 Longer Term Plans

see above